

Title (en)  
Beamforming from multiple transmission sites

Title (de)  
Strahlformung von mehreren Sendestellen

Title (fr)  
Formation de faisceaux depuis de stations de transmission multiples

Publication  
**EP 2523363 A2 20121114 (EN)**

Application  
**EP 12167722 A 20120511**

Priority  
• US 201161486070 P 20110513  
• US 201213425939 A 20120321

Abstract (en)  
A beamforming method including selecting a first transmission site from a plurality of transmission sites (108a, 108b, 108c) based on the quality of a first channel between the first transmission site and an endpoint or terminal (110). The method further includes determining a first precoding matrix corresponding to the first transmission site. The first precoding matrix may be applied to data transmitted by the first transmission site to the endpoint. The method further includes determining a second precoding matrix corresponding to a second transmission site of the plurality of transmission sites. The second precoding matrix may be determined based on at least a first spatial direction that is calculated based on at least the first channel.

IPC 8 full level  
**H04B 7/02** (2006.01); **H04B 7/06** (2006.01); **H04L 5/00** (2006.01); **H04L 25/02** (2006.01); **H04L 25/03** (2006.01)

CPC (source: EP US)  
**H04B 7/024** (2013.01 - EP US); **H04B 7/0639** (2013.01 - EP US); **H04L 25/0224** (2013.01 - EP US); **H04L 25/03904** (2013.01 - EP US); **H04L 25/03955** (2013.01 - EP US); **H04L 5/0007** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2523363 A2 20121114**; **EP 2523363 A3 20130116**; **EP 2523363 B1 20160511**; CN 102780520 A 20121114; CN 102780520 B 20150819; JP 2012244626 A 20121210; JP 5928137 B2 20160601; US 2012289281 A1 20121115; US 9325401 B2 20160426

DOCDB simple family (application)  
**EP 12167722 A 20120511**; CN 201210141339 A 20120508; JP 2012105951 A 20120507; US 201213425939 A 20120321